

OSCILLATOR

OTVARC



Oregon Tualatin Valley Amateur Radio Club (Est. 1978)

January 1999

THE PRESIDENT'S MESSAGE

By Betty, N7REX

1998 IN REVIEW: THE GOOD, THE BAD AND THE UGLY

The Good:

1998 was a good year for OTVARC. The club membership grew. So did participation in nearly all club activities. At a recent club meeting, I had a heartwarming chat with Burt Smidtt W7JWG, a club president from the early years. One of his reflections was about how many different activities the club was involved in. Thank you to everyone who helped to make this a reality.

We have had many upgrades, several new hams, and some (confusing to me) changes to vanity calls. Our VE testing and our training classes have gotten off to a good start. Our goal is to continue this success in the new year.

Thanks in part to the groundwork set up by area ARES groups, local emergency planners are now actively seeking out our participation in emergency exercises. For more information about our latest invitation see page 7. Many of the Local City and County EOCs now have ham radio packet stations or have budgeted for them in '99.

From campouts, to the lunch bunch, to the culminating holiday celebration and dance, the club's social events have been well attended. Many people helped make these events successful. Thanks to all who organized, participated, or encouraged others to join the fun.

Public service events kept many club members busy throughout the year. For the first time in many years, OTVARC helped out with JOTA (Jamboree on the Air) with a couple of scout troops. Field Day and the Regional Picnic were successful thanks to a small dedicated group of organizers.

The Bad:

The mighty Mo took a toll on Sea*Pac attendance this year. Plans are already underway for Sea*Pac '99. Plan to attend, offer to help, join the committee, or encourage and support those who do.

Selling off the spectrum to the highest bidder was and will continue to be a constant concern for amateur radio operators. It may not be 'little Leo' the next time who threaten the continuation of our hobby. Please support efforts to save our spectrum.

The Ugly:

The amateur radio community lost one of our finest this year, Mary Lou Brown, NM7N. As our ARRL NW Division Director, Mary Lou was one of the hardest workers on the team. She started her own e-mail newsletters to

(continued on page 6 - second column)

NEXT MEETING

WEDNESDAY, JANUARY 13TH

Our speaker will be Frank Oulman, owner of Safe-T-Tek, a company devoted to providing a wide range of emergency preparedness products. Frank will discuss and show many of the products which all of us should be considering for our personal and family emergency preparedness needs. Frank is very knowledgeable about emergency preparedness products, having recently retired after 25 years with Tualatin Valley Fire & Rescue service, most recently as Chief of Emergency Medical Services (EMS).

W7OTV 146.960 (RPTR)

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NORTHWEST DIRECTOR, MARY LOU BROWN, NM7N, SK

From The ARRL Letter

Northwestern Division Director Mary Lou Brown, NM7N, of Anacortes, Washington, died December 3, 1998. She was 71. Brown was just re-elected without opposition to a new two-year term on the ARRL Board. Her husband, Bob, NM7M, reports that Director Brown collapsed and died at Los Angeles International Airport, apparently after suffering a heart attack. She was returning from Australia where she had just taken part in the Lord Howe Island, VK9LX, DXpedition.

DXpedition member Nick Hacko, VK2ICV, called Brown was "the most-liked person" on the DXpedition. "Although I knew Mary Lou for only a few days, it was very clear to me and to the other Lord Howe operators that she was an exceptional person," he said in an Internet posting after learning of her death. He said Brown helped out with all phases of the operation and deserved "a lot of credit for helping the rest of us get a great lot of enjoyment out of our trip."

Brown has been the ARRL Northwestern Division Director since 1995 and was a vice director from 1990 through 1994. She also served as a member of the ARRL Executive Committee.

ARRL Executive Vice President David Sumner, K1ZZ, said Brown was held "in the highest possible esteem" by her peers on the ARRL Board. He noted that Brown was elected to the Executive Committee after just one year as a director, and was re-elected twice. "Her enthusiasm for Amateur Radio extended beyond organizational affairs to on-the-air operating, especially operating with friends," he said. "Anyone who was fortunate enough to be able to call Mary Lou their friend — and their numbers are legion, all over the world — knows the true meaning of friendship."

Brown received her doctorate from Columbia University. Before retiring to Washington, she taught physical education at the University of California at Berkeley and served as a department chairperson.

Mary Lou Brown was also a former president of the YLRL. She also quietly contributed very generous amounts to various scholarships for young radio amateurs.

A memorial service for the late ARRL Northwestern Division Director, was held Thursday, December 17, at 2 PM PST, at Guemes Island Road Community Church.

Among those expressing sadness at the sudden death of Director Brown on December 3 was Radio Amateurs of Canada President J. Farrell "Hoppy" Hopwood, VE7RD, who called her "a special friend of Radio Amateurs of Canada" who was "always most generous in assisting RAC."

Northwestern Division Vice Director Greg Milnes, W7AGQ, accedes to the position of Director. Milnes also was just re-elected to a new two-year term. ARRL Pres. Rod Stafford, W6ROD, will fill the Vice Director vacancy by appointment, very shortly. <>

MORE ON NM7N FUNERAL

From Dave Sumner, K1ZZ, ARRL Executive Vice President

I have just returned to the office after attending the memorial service for Mary Lou Brown. About 100 of her friends gathered at the Guemes Island Community Church yesterday afternoon to celebrate her life. I felt very honored that Bob Brown asked me to say a few words on behalf of the League.

Other speakers described what she had done to help the Red Cross, the local community, YLRL, YL DXpeditions in general, and bird-watching, and what a good friend she had been to each of them in the pursuit of these varied activities.

Among the others representing the League were Greg Milnes (who met me at the airport and provided transportation to Anacortes), Western Washington SM Harry Lewis and Past Director Mary Lewis, Eastern Washington SM Kyle Pugh, Past Director Rush Drake, and several Assistant Directors and appointees. No doubt I have overlooked someone who should be mentioned. I knew, as you all did, that Mary Lou was a jewel; I didn't fully realize how many-faceted.

<>

SOME THOUGHTS ON OUR LOSS

By Greg, W7AGQ, NW Division Vice Director

I purposely have done no calling or organizing. Somehow it did not seem appropriate to leave my Vice-Director position and jump right in as Director. Yes, that's what the rules say, the Vice-Director succeeds to the Director's position. But it just didn't feel right.

Now that we have experienced a very meaningful memorial service for Mary Lou, it is now time to carry on her work and gather the Northwestern Division together. I have most of Mary Lou's files and I have started to go through them. I will be receiving some additional information we missed Thursday morning.

Mary Lou and I worked well together as a team. We divided up a lot of responsibilities (needed to administer the largest geographic Division in the country). Now its time for me to get up to speed on those duties and responsibilities Mary Lou retained for herself.

Several hams have talked to me about the now vacant position of Vice Director. I have consulted with the ARRL President and Executive Vice President as well as several respected NW Division hams. I will continue to seek advice and welcome your comments. I

(Continued on page 3)

BORSCH ELECTRONICS

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FCC GIVES AMATEUR RULES ENFORCEMENT HIGH PRIORITY

From The Radio Amateur Newsline

The Federal Communications Commission says that the rumors are true. Enforcing the ham radio rules has become a top priority with the agency. Bill Burnett, KT4SB, has the exclusive story – direct from the FCC.

Is it safe to say the FCC is cracking down on amateur radio violators? Riley Hollingsworth says that would be a safe statement. He's the legal advisor for the Compliance and Information Bureau. Hollingsworth says things are different today than in the past when it comes to enforcement. Now they're playing a more direct role, rather than leaving it up to volunteers. And that includes forfeitures, suspensions and revocation proceedings.

Hollingsworth says as a whole, ham radio "is fairly well self policing". Are there more problems now than in the past? Hollingsworth says it seems to be based on the number of complaints they've been getting. I asked Hollingsworth what would he tell a jammer who may be reading this article?

"If they care about the Amateur Radio service, then they are doing a lot of damage [to it] in terms of giving it a bad name to people who hear about it, and in terms making it a less functional and less useful service to society."

"There is lots of competition for spectrum and people are willing to spend a fortune for it." "So, in the long run they are doing a lot of liability [harm] to the Amateur Radio Service, even to the possibility that it can survive."

"Secondly, it [violating FCC Part 97 rules] is not the best use of their time because we are there now! Some people may call us a dinosaur, but even with a dinosaur, if you stomp its tail enough it will respond." Hollingsworth said.

Hollingsworth says if you want to report malicious interference or other problems on the amateur radio bands, call them at (202) 418-1184.

The bottom line is that the years of lobbying by law abiding hams has finally paid off. They wanted tighter enforcement of the Part 97 Rules and now they have it. As a result, those few radio amateurs that challenge the system are quickly finding out how much it can cost them if they choose to break the law.

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FCC ENFORCEMENT HONCHO DONE "TAKING NAMES"

From The ARRL Letter

The FCC's Riley Hollingsworth, K4ZDH, is making his list and checking it, twice. And now that he knows which hams are naughty, not nice, he's ready to take enforcement actions against the most flagrant amateur offenders.

"Fully half of the amateur problems on HF relate to a specific group of jammers – malicious interferers who apparently enjoy disrupting as much amateur communication as possible," said Hollingsworth, the FCC's point man for amateur enforcement within the Compliance and Information Bureau. "Enforcement action against this group is long overdue."

Coal could be showing up in some Christmas stockings. Hollingsworth has prepared a report to his boss, CIB Chief Richard D. Lee, detailing his findings and fingering the most serious violators in a "top 10" list which he declined to make public just yet. His memo urged "immediate enforcement action."

Hollingsworth said he's talked with more than 250 people on the amateur enforcement line (202-418-1184) since the end of September, when the FCC's latest amateur enforcement initiative kicked into high gear. In addition, he has received more than four dozen letters and e-mailed comments concerning problems in the Amateur Service. Hollingsworth has concluded that, while most amateurs abide by the rules, a few habitual offenders continue to flout the law.

"We are not going to stand for the Amateur Service to be further degraded or destroyed by them," he said.

Hollingsworth says that jamming and deliberate interference is the most common problem, accounting for 31% of all complaints. Repeater misuse and jamming account for another 29%. But he considers the HF abuses – most typically reported on 75 and 20 meters – to be the more serious offenses because they can be national or international in scope.

Other general problems accounted for another 17% of the complaints, Hollingsworth said. A full 10% of complaints concerned an unlicensed individual in California who already has spent time in jail for past convictions.

Hollingsworth has sent out 30 informal "warning letters" to individual operators as a result of complaints. The letters warn the recipients that a complaint has been received about the recipient or someone using his or her call sign, indicate that the allegations, if true, could jeopardize the amateur's license, and request the recipient to contact the FCC to discuss the matter.

"In almost every case the recipient has contacted us," he said. "In one case, the licensee contacted us, apologized, and reports since
(continued on page 5)

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(Continued from page 2 - SOME THOUGHTS ON OUR LOSS)

expect that I will be making a recommendation to President Rod Stafford, W6ROD, after Christmas and the appointment should be made very early in January.

I have traveled to a number of clubs over the past four years but there are many more I have not visited. Several groups have invited me to talk to their club and I would invite others to do the same. I enjoy talking to hams, after all I've been one for over 43 years. I also want very much to learn from you. Amateur radio is such a diverse service/hobby that there are many areas that I don't know much about. You can be my teacher.

You will also get a chance to tell me about things I should or should not do. I hope you will make your views on ARRL matters known to me. I have to vote on a lot of things at Board meetings and I want to know how YOU see things. In return for you sharing comments with me, I'll do my best to keep you informed on the issues.

I will be soon contacting all Assistant Directors. I've looked over the list and I know many of you already. No one is getting fired! I'll be sending out a form to see if you want to continue as an Assistant Director.

In the meantime, I'll be organizing Mary Lou's materials, correlating them with mine and at the same time preparing for the January 15-16 ARRL Board meeting in Houston.

There are a lot of things to do. I appreciate the many expressions of sympathy for me for the loss of a friend and co-worker. I am also warmed by expressions of support for the days ahead.

I've told Bill, WO7O, this already, but our Northwestern Division home page is far and away the best Division home page in the country. I have received a number of comments from other Divisions that want to be like us. I'm proud of this home page and I suspect you are too. The address is: www.olympus.net/nwarrrl/

73 and 88 where appropriate.

Greg Milnes, W7AGQ,

Northwestern Division Director. <>

KENWOOD EMERGENCY GEAR

From The Amateur Radio Newssline

With the number disasters that seem to require ham radio communications growing, Kenwood Communications has announced the availability of what it calls a "portable emergency radio communications kit".

The kit features a dual-band base station radio packed with a compact switching type power supply and a magnetic mount antenna. Also included are one or more Kenwood dual band handhelds plus a waist pack accessory belt. It contains a spare ni-cad battery, an Alkaline battery case, matching speaker-mic, an earphone and a cigarette lighter power adapter. All of this gear is compatible with VCH1 visual communicator. The system is also APRS compatible when used in conjunction with a GPS receiver.

Kenwood says that the idea is to have all the basic gear needed to handle any emergency, available in one place so that hams do not have to hunt for batteries and other accessories when a real emergency takes place. For this reason, all equipment in the kit is housed in a single, rugged air shippable case.

Pricing depends on the exact equipment that a group might need. For more information contact Paul Middleton, KD6NUH, at Kenwood Communications. He's the National Sales Manager for Kenwood Amateur Products. You can call him at (310) 639-4200 or by e-mail to: paulem@ix.netcom.com

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GET A BAY GEN

From The Amateur Radio Newssline

Another piece of radio gear that no ham involved in emergency communications should be without is the Bay Gen Freeplay radio.

In case you are one of the very few who have never heard of this device, the Bay Gen is an AM, FM and Shortwave receiver that has been around for the past few years. What makes it unique is the way that it is powered. Instead of batteries or an AC mains power cord the Bay Gen uses a built-in wind up generator designed by British inventor Trevor Baylis.

As the add says, you simply wind the crank for thirty seconds and the radio plays at full volume for thirty minutes. What this means is that when a real emergency hits, you do not find that there is no power and the batteries are dead. Just wind up the Bay Gen and if there is a radio station in range, you will hear it.

So why is the Bay Gen an important tool for hams involved in emergency communications? Simply that he or she needs to know what's happening in the real world. When the power lines are down and the batteries are dead, the Bay Gen will still be bringing in that information.

For more information on the Bay Gen Freeplay radio visit: www.baygen.com on the world wide web.

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OTVARC BUNCH FOR LUNCH

By Harold, WA0BRU

January's lunch bunch will get together at Shari's Restaurant located at 185th and Farmington Road in Aloha. The date is the 23rd of January (the 4th Saturday) and the time is 1:30PM

The restaurant is located in the Farmington Village Shopping Center, at 6029 SW 185th. Come on down with your friends and enjoy the food and the fun - everyone is invited.

Call Julie, or me, at 646-1546 (yes, that is a new number) with any questions.

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(continued from page 1 – THE PRESIDENT'S MESSAGE)

club presidents and newsletter editors to help keep us informed about what was happening at ARRL, as well as other information pertaining to ham radio. Mary Lou tried to visit every club in her division. Fortunately for OTVARC, she visited in February.... She and her van were welcome sights at OTVARC, at Rickreall, and later at the OTVARC campout. She will be missed. For additional information about this silent key, see pages -?- and -?-.

73 and hope you all have a happy and prosperous New Year, Betty.

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1999 CLUB OFFICERS AND TRUSTEES ELECTED

By Betty, N7REX

The December 9th election results for officers and trustees provided the following results:

President	- Betty Mickley, N7REX
Vice President	- JD Fort, K7JDF
Secretary	- Mike McDonald, KC7YSW
Treasurer	- Hanford Van Ness, KE7BB
Trustee	- Janet Bell, WB7FJC
Trustee	- Al Berg, W7SIC
Trustee	- Maureen O'Rouke, KA7LAP
Trustee	- Will Sheffield, N7THL
Trustee	- Jack Smithson, KA7HOJ

A big thanks to Richard Welk, KB7EWX, for all his hard work in contacting members and providing a smooth running election. Also, thanks to all those who stepped forward and were willing to run for office.

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NEW MEMBERS

By Editor, W7OTV

Please welcome two new members into the club: Robert Kempter, WA7WJA, of Lake Oswego and Robert Young, KB7MFD, also of Lake Oswego. Help them become acquainted with the many opportunities provided by our club.

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LYRA YOUTH HAM GROUP

From the Amateur Radio Newsline

Have you heard about the new League Of Young Radio Amateurs. LYRA as the group is better known now has twenty-four members worldwide but is growing. Its primary purpose is to bring young people together who didn't know other young hams existed nearby. For further information on LYRA, go to: www.qls.net/lyra on the world wide web.

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EUREKA! A BREAKTHROUGH!

Submitted by Ken, K7SXI

Author Unknown

PISCATAWAY N.J., USA – Announcing the new Built-in Orderly Organized Knowledge device (BOOK). It is a revolutionary breakthrough in technology – no wires, no electric circuits, no batteries – nothing to be connected or switched on. It's so easy to use; even a child can operate it.

Just lift its cover – compact and portable, it can be used anywhere, even sitting in an armchair by the fire, yet it is powerful enough to hold as much information as a CD-ROM disk.

Here's how it works: each book is constructed of sequentially numbered sheets of paper (recyclable), each capable of holding thousands of bits of information. These pages are locked together with a custom-fit device called a "binder" that keeps sheets in their correct sequence. By using both sides of each sheet, manufacturers are able to cut costs in half.

Each sheet of paper is scanned optically and registers information directly into your brain. A flick of the finger takes you to the next sheet. The BOOK may be taken up at any time and used by merely opening it.

The "browse" feature allows you to move instantly to any sheet and move forward or backward as you wish. Most come with an index feature, which pinpoints the exact location of any selected information for instant retrieval.

An optional "BOOKmark" accessory allows you to open the book to the exact place you left it in a previous session, even if the BOOK has been closed. BOOKmarks fit universal design standards; thus a single BOOKmark can be used in BOOKs by various manufacturers.

Portable, durable and affordable, the BOOK is the entertainment wave of the future, and many new titles are expected soon due to the surge in popularity of its programming tool – the Portable Eraseable-Nib Cryptic Intercommunication Language Stylus (PENCILS).

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*Doubt is often the
beginning of wisdom!*

(Continued from page 4 - FCC ENFORCEMENT)

at time indicate that the licensee has become a model operator." Some amateurs have reported to the ARRL that amateur behavior has improved - dramatically in some areas - since word hit the street that the FCC was taking amateur enforcement seriously. For its part, the League has said it is willing, for now, not to pursue its request to further privatize amateur enforcement.

Hollingsworth says the warning letters will continue, but now he's taking aim at the hard-core scofflaws within the Amateur Radio community. "We have now let everyone out there know we're back," he said. Continued violations will "guarantee" license revocations, fines, or, in extreme cases, equipment seizures.

"Church is out now," he said. "We mean business and we're strapped in and ready to ride." Hollingsworth said Amateur Radio rulebreakers "continue these violations at their own risk."

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CW IN THE CINEMA

FROM THE ARRL LETTER

Several ham-moviegoers have alerted ARRL HQ that the movie "Enemy of the State" contains a snatch of CW. In scenes depicting a spy satellite, the sound track includes a little Morse code: The satellite calls CQ! "As though pictures were sent from satellites by Morse, said Tom Bradbury, NU4G, who saw the movie in November with his daughter, Elizabeth, KE4IWN. "I broke out laughing, no doubt to the puzzlement of those around me," he said. "Somewhere in moviedom is a chuckling ham, I guess."

Steve Kaufman, VE2SKA/KB2SPH, says that characters in the movie also use what appears to be a Yaesu HF transceiver to break into police frequencies. "The frequency shown is in the 40-meter band," he says, "but they do speak to the police dispatcher." The movie stars Will Smith and Gene Hackman.

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ARRL MEMBERS ONLY WEB SITE A HIT

From The ARRL Letter

Since it went on-line earlier this fall, the ARRL Members Only Web Site: (<http://www.arrl.org/members/>) has topped the 30,000 mark for members registered to use it. During the last 10 days of November, nearly 7000 members visited the Web site.

The site provides access to The ARRLWeb Extra, a new Web publication that contains current news and Amateur Radio features, as well as to past QST product reviews and other services and information.

ARRL members also may sign up for free e-mail delivery of The ARRL Letter and W1AW bulletins and update their name, address, and call sign information with the League via the Members Only Web Site.

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RENTERS GET DISH OK

From Amateur Radio Newsline

Renters will be permitted to install small satellite dishes or other TV antennas on balconies, patios or gardens that aren't shared with other tenants. The Federal Communications Commission adopted rules on Friday, November 20th that will help renters take advantage of a range of ways to get TV service just as homeowners can.

The rules, which should take effect in about two months, cover rental properties such as apartments and single family homes but not "common areas" such as apartment building lobbies or roofs.

The FCC already has similar rules for people who live in condominiums, co-ops and mobile homes. Unfortunately, Amateur Radio antennas are not covered under this order. But it could open the door to some pro ham radio antenna legislation a long ways down the road.

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HAMFESTS AND CONVENTIONS

By Mary Lou, NM7N
Northwest Division Director

1999 --

- Feb 20 Salem Hamfair, Cnty Fairgrnds, Rickreal, OR
- Mar 13 Mike and Key Flea Market, Puyallup, WA
- Mar 27 Eugene's 2nd Annual Hamfest
- Apr. 10 Lilac City Hamfest, Spokane, WA
- Apr. 24 Clark County Hamfest, Vancouver, WA
- Jun 4-6 SeaPac, Seaside, OR
- Jul 16-18 Glacier/Waterton Hamfest and MT Convention
- Aug 7-8 Eastern Washington Section, Spokane, WA

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QUICK CRACKING OF SECRET CODE

From the Amateur Radio Newsline

Europe's Science News reports that a custom built computer costing less than \$250,000 took only 56 hours to find the numerical key for decoding a message that had been encrypted with the U.S. government's special Data Encryption Standard code.

According to Science News, the DES code is used routinely by many banks and financial institutions to protect electronic fund transfers and credit card transactions. Obviously, says the article, it is time for a much stronger code.

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**COME TO THE JANUARY MEETING AND
HELP WELCOME ALL THE CLUB OFFICERS.
LET THEM KNOW OF YOUR SUPPORT AND
YOUR EXPECTATIONS!**

(Continued from page 7 - ARRL/VE EXAMS)

All exam elements will be administered. The test fee for '99 is \$6.45. Please bring a check or money order payable to ARRL/VEC. All applicants must bring a photo ID. In addition, applicants upgrading must bring the original **AND** a copy of their current license and the original **AND** a copy of any CSCE that will apply to the upgrade.

Please contact Carl Clawson, WS7L, at 629-5796, to preregister. Testing is sponsored by the Oregon Tualatin Valley Amateur Radio Club (OTVARC), a Special Service Club of the American Radio Relay League.

DECEMBER TEST RESULTS

A VE session was held at TVF&R on 5 Dec. A total of 8 applicants were tested on 12 elements. We awarded three new technician licenses and an upgrade to Extra. Two OTVARC members either upgraded or earned element credit.

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OTVARC TRAVELERS MARCH CAMPOUT DATE CHANGED!

By Geno, KA7KBH

Our March 1999 campout will be on the 2nd weekend, March 12, instead of the third weekend. This is *a weekend earlier than usual*.

Due to changes at the club house at the Cape Kiwanda RV Park, the previous club room no longer exists. Therefore, we had to accept the second weekend.

Please make your calendars with the new date. Call me at 614-0563 with any questions.

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PACKET HT FROM KENWOOD

From Amateur Radio Newsline

Kenwood Communications has jumped in to help to build interest in packet radio and APRS in a very big – yet very small – way. Robert Sudock, WB6FDF, says the company's new offering has to be seen to be believed.

Looking for yet another niche product is becoming popular in the world of ham radio equipment supply, and Kenwood is becoming one of the leaders in this area. And Kenwood has struck again with its sneak peak at an exciting new packet equipped five watt dual band hand held at the recent Digital Communications Conference in Chicago.

Dubbed the Kenwood Data Communicator this new HT features a built-in dual speed Terminal Node Controller and APRS system. This permits the user to send and receive packet radio messages.

The big question was how well could such a small package work. The answer came in trying it out. After playing with all of the radios built in TNC, GPS and APRS features, conference attendees at

the conference took the unit out to the parking area to see what it could do. They used a handheld, 3 element, UHF beam on the various Pacsats flying overhead. Reports are that even without the proper software, attendees still saw screens full of downlinked UI packets from KO23, KO25 and UO22 using just a dumb terminal program on a laptop.

For more information on the new Data Communicator drop a note to: Kenwood Communications,

P.O.Box 22745

Long Beach, CA 90801

or visit the Kenwood home page on the world wide web.

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BIG GLASS TUBES

from THE ARRL LETTER

There's some good news for hams with older power amplifiers that use large glass tubes. It comes from Triton Services, which is now offering U.S. made 4-400A and 3-500Z transmitting tubes for use by radio amateurs and others.

Triton is located in Easton, Pennsylvania. A few years ago it purchased the Glass Tube Division of Eitel-MacCollough Company – better known as Eimac. Now its using the original Eimac equipment and technology to produce the 3-500Z and 4-400A tubes and doing so to the original Eimac specs.

Distribution is exclusive through D and C Electronics of Spring Hill, Florida. Go to: www.dandcelectronics.com on the world wide web to learn more.

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GREAT TRUTHS ABOUT LIFE THAT ADULTS HAVE LEARNED

- Raising teenagers is like nailing Jell-O to a tree.
- There is always a lot to be thankful for if you take time to look for it. For example, I am sitting here thinking how nice it is that wrinkles don't hurt.
- Families are like fudge....mostly sweet with a few nuts.
- Today's mighty oak is just yesterday's nut that held it's ground.
- Laughing helps. It's like jogging on the inside.
- Middle age is when you choose your cereal for the fiber, not the toy.
- Eat a live toad first thing every morning, and nothing worse can happen to you the rest of the day.
- You know you're getting old when you stoop to tie your shoes and wonder what else you can do while you're down there.
- Life's golden age is when the kids are too old to need a baby-sitter and too young to borrow the car.

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****NOTICE *** NOTICE****

STOLEN RADIO

STOLEN: Out of my car while parked in my driveway! An Alinco, DR 110, Mobile 2mtr radio with Radio Shack microphone and mounted on a brown CB hump mount bracket with built in speaker. Also has Wes Allen (Anderson) connectors on the power cord. If you get wind of this radio, please call Phil, N7OY at 649-7533. Thank You. <>

EDUCATORS "GO THE GRANT ROUTE" TO FUND SCHOOL HAM STATIONS, PROGRAMS

From The ARRL Letter

Three educators have received grants to set up ham radio stations in their classrooms. The biggest grant — a whopping \$12,000 — was garnered by electronics teacher Fred Usherson, N2EGQ, of Floral Park, New York. In his grant proposal to the World of Knowledge Foundation, Usherson cited the need to create an Amateur Radio program so that his Queens Vocational Technical High School students could handle emergency messages and gain marketable electronics skills. "Amateur Radio will be integrated into our electronics curriculum," he said. "I want to get all students in my classes as licensed hams."

Teacher Sarah Cowan isn't even a ham yet, but she still managed to get a \$1,500 grant through Los Alamos National Laboratory to set up an Amateur Radio station at Pajaro Middle School in Santa Cruz, California. The grant, from the US Department of Energy's Teacher Opportunities to Promote Science (TOPS) program, will allow students to learn about technology in general and radio waves in particular, study for their ham licenses, and take field trips to see scientists at work.

The project is tied into scientific work at Los Alamos. Cowan's mentor there is Don Casperson, AA5PA, an ARRL Life Member who has volunteered his technical expertise. The Santa Cruz Amateur Radio Club also is assisting. Cowan says the community could benefit from having more youthful ham operators to help with emergency communications, since Pajaro is near an earthquake zone.

This year's ARRL Professional Teacher of the Year, Bob Lavin, K6BOB, of Calabasas, California, got \$3,000 from his school's parent-teacher organization earlier this year to purchase a ham radio station. He has integrated ham radio into his classes, and 30 students and teachers now hold Technician or Tech Plus tickets.

For those who wish their school had a ham radio station and activities for kids, ARRL Educational Activities Manager Rosalie White, WA1STO, offers some suggestions. "Ask around to learn who're the innovative teachers in your district, and offer a hands-on geography or science lesson," she suggests. "Or get yourself invited to help students take part in the School Club Roundup (see January QST)."

White says hams also might check with their employers or with other local industries to learn if funding for educational projects is available. "Companies prefer to see funding go toward training their potential future employees," she said. "You can also do an Internet search on foundations and grants, and read QST's 'At the Foundation' for occasional stories about school-garnered mini-grants."

Getting grant money from various sources to fund Amateur Radio activities in the school is not a new idea, but it's one White says more teachers should explore. In 1995, four different grants gave teacher Sheila Perry, N0UOP, \$155,000 for her school district. The money funded curriculum development, Amateur Radio equipment, electronic kits, a computer lab and other items.

Teachers interested in learning more about how to write grant proposals should read "A Trip Through the Teaching Universe," by Connie Dunn, KB5LES, QST, June 1995, p 44 or visit ARRLWeb, <http://www.arrl.org/ead/teacher/perry.html>. <>

OLD TIME HAM REFLECTOR

From The Amateur Radio Newline

An Ohio ham has started up a free e-mail reflector that focuses on Amateur Radio trivia, history, and recollections of the early days. The ARRL Letter reports that Pete Buehner, KC8ER, of Mentor, Ohio, has established the electronic forum to research and preserve as much of our hobby's past as possible. To subscribe, send a blank e-mail message to: ham-radio-history-subscribe@eGroups.com

For more information, contact KC8ER at kc8er@harborcom.net or go to: www.members.harborcom.net/~kc8er <>

1999 ARRL/VE LICENSE EXAMINATIONS

By Carl, KS7L

OTVARC has scheduled Amateur Radio license testing sessions on the following dates: 13 Feb, 3 Apr, 12 June, 7 Aug, 2 Oct, and 4 Dec. All dates are Saturdays. Testing is at 1:00pm at Tualatin Valley Fire & Rescue Admin. Office, 20665 SW Blanton, Aloha.

(continued on page 8)

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OTVARC Club Contacts

OTVARC Executive Board

President	Betty Mickley	N7REX	642-1284
Vice President	J.D. Fort	KC7EHT	259-0269
Secretary	Mike McDonald	KC7YSW	692-5893
Treasurer	Hanford Van Ness	KE7BB	246-7975
Trustee	Jack Smithson	KA7HOJ	646-1873
Trustee	Will Sheffield	N7THL	642-7314
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	W7SIC	640-5456
Trustee	Maureen O'Rourke	KA7LAP	591-9641

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	472-2716
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	OPEN		
Equipment Loan	Stan Griffiths	W7NI	649-0837
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	W7SIC	640-5456
Emergency Services	J.D. Fort	K7JDF	259-0269
Field Day Coordinator	Alan Chinnock	KB7POR	636-2237
Health & Welfare	Mary Berg	N7TRW	640-5456
Historian	Al Berg	W7SIC	640-5456
Internet Home Page	Marc Chamberlin	WA7PKW	357-1869
Member Badges	Carl Clawson	WS7L	629-5796
Newsletter Editor	Dale LeBarron	W7FBP	638-7768
Newsletter Layout	Dale LeBarron	W7FBP	638-7768
Newsletter Distribution	Al Berg	W7SIC	640-5456
Nominating Committee	OPEN		
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	652-1284
Public Relations	J.D. Fort	K7JDF	259-0269
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	K7FW	640-0217
Satellites	OPEN		
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Sea-Pac	Al Berg	W7SIC	640-5456
"	Brad Beach	N7NVC	657-1781
"	Jim Schaeffer	KB7ADH	245-2518
"	Randy Stimson	KZ7T	297-1175
"	Will Sheffield	N7THL	642-7314
Station Trustee	Chuck Mickley	KI7CL	642-3713
Social	Harold Landers	WA0BRU	620-5041
Technical Specialist	Stan Griffiths	W7NI	649-0837
Tower Ordinances	Greg Milnes	W7AGQ	648-6990
Trailer	Dee Lynch	KA7NPN	646-4580
Training(code)	Burt Rooke(PCC)	KI7JX	241-2891
Training(Novice/Tech)	Jim Mockley	AB7XD	629-9354
Training(upgrade)	OPEN		
VE Test Coordinator	Carl Clawson	WS7L	629-5796
VHF/UHF	Arnold Jensen	N7YAG	543-3713

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service, through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views, and recommendations of its contributors are not necessarily those of the club, its officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time, from January through June and July through December. All ads must be paid for in advance. Rates are as follows:

Full page	8" X 10"	\$200 for six months
Half page	8" X 5"	\$120 for six months
Qtr page	4" X 5"	\$72 for six months
Bus. Card	2" X 3"	\$36 for six months

Meetings: We have two meetings per month. The board meeting is on the fourth Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Lodge, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.00.

Membership: OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see the Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club treasurer for prorated dues.

How to join: Simply mail the Membership application and/or renewal form along with your dues to the address above.

Internet Home Page: WWW.EASYSTREET.COM/OTVARC

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